

Sheet 1 of 1

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 100.003.5	SERIAL NUMBER 10/648,167
	APPLICANT(S) Prince	
	FILING DATE August 26, 2003	GROUP ART UNIT 2764

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAMR	CLASS	SUB CLASS	FILING DATE
WCS	5,494,655	2/1998	Rocklage et al.	1	1	1
WCS	5,833,947	11/1998	Rocklage et al.	1	1	1

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <i>Willie C. Steiner</i>	DATE CONSIDERED 9/27/05
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WCS	Fast Three-dimensional Time-of-Flight MR Angiography of the Intracranial Vasculature, Talagala et al., JMRI, May/June 1995, pp.317-323
	A presentation (71 slides in total) by Dr. Emanuel Kanal at the December 1991 RSNA, Chicago, IL
	"Angiographic Diagnosis and Management of Aorto-Iliac Disease", Tegtmeier et al., Radiology, Vol. 2, 1988, pp.1-4
	"The Potential Role of Magnetic Resonance Imaging in Ischemic Vascular Disease", Charles B. Higgins, The New England Journal of Medicine, June 1992, Vol. 326, No. 24, pp.1624-1625
↓	"Dynamic MR Digital Subtraction Angiography Using Contrast Enhancement, Fast Data Acquisition, and Complex Subtraction", Wang et al., MRM, 36:551-556, 1996

EXAMINER <i>Will O. J.</i>	DATE CONSIDERED 9/27/05
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EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
WCS	5,141,740	08/25/92	Rajagopalan et al.			
	5,167,232	12/01/92	Parker et al.			
	5,078,986	01/07/92	Bosworth et al.			
	5,055,288	10/08/91	Lewis et al.			
	5,034,694	07/23/91	Sattin et al.			
	5,011,686	04/30/91	Pang			
	5,010,191	04/23/91	Engelstad et al.			
	4,877,599	10/31/89	Lees			
✓	4,826,673	05/02/89	Dean et al.			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

WCS	"Cerebrovascular Magnetic Resonance Angiography", Wesbey et al., J. Vascular Surgery 1992, vol.16, no.4, pp. 619-632
	"Volume MR Angiography: Methods to Achieve Very Short Echo Times", Schmalbrock et al., Radiology 1990, vol. 175, pp. 861-865
	"Three Dimension (Volume) Gradient-Echo Imaging of the Carotid Bifurcation: Preliminary Clinical Experience", Masaryk et al., Radiology 1989, vol. 171, pp. 801-806
	"Gadolinium-enhanced Magnitude Contrast MR Angiography of Popliteal and Tibial Arteries", Lossef et al., Radiology 1989, vol. 184, pp. 349-355
	"Intercranial Circulation: Preliminary Clinical Results with Three-Dimensional (Volume) MR Angiography", Masaryk et al., Radiology 1989, vol. 171, pp. 793-799
	"Abdominal Aorta and Renal Artery Stenosis: Evaluation with MR Angiography", Kim, et al., Radiology, vol. 174, pp. 727-731, March 1990
	"Intercranial Vascular Lesions: Optimization and Clinical Evaluation of Three-Dimensional Time-of-Flight MR Angiography", Marchal, et al., Radiology, vol. 175, pp. 443-448, May 1990
✓	"Normal Venous Anatomy of the Brain: Demonstration with Gadopentatate Dimeglumine in Enhanced 3-D MR Angiography", Chakeres, et al., AJR, vol. 156, pp. 161-172, Jan. 1991

EXAMINER <i>Willie Sy</i>	DATE CONSIDERED <i>9/27/05</i>
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WCS	4,822,594	04/18/89	Gibby			
	4,770,183	09/13/88	Groman et al.			
	4,718,424	01/12/88	Nishimura			
	4,006,736	02/08/77	Kranys et al.			
	3,973,554	08/10/76	Tipton			
	5,260,050	11/09/93	Ranney			
	4,777,957	10/18/88	Wehroli et al.			
	4,880,008	11/14/89	Lauffer			
✓	5,190,744	03/02/93	Rocklage et al.			

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EXAMINER INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

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WCS	"Three-dimensional Time-of-Flight MR Angiography: Applications in the Abdomen and Thorax", Lewin, et al., Radiology, vol. 179, no. 1, pp. 261-264, April 1991
	"Safety of Gadolinium-DPTA: Extended Clinical Experience", Niendorf, et al., SMRM Workshop on Contrast Enhanced Magnetic Resonance, May 23-25, 1991
	"Fast Time-of-Flight MR Angiography with Improved Background Suppression", Edelman, et al, Radiology, vol. 179, pp. 867-870, June 1991
	"Assessment of Carotid Artery Stenosis by MR Angiography: Comparison with X-ray Angiography and Color Coded Doppler Ultrasound", Anderson, et al., AJNR, vol. 13, pp. 989-1003, May/June 1992
	"Gadolinium-enhanced High-Resolution MR Angiography with Adaptive Vessel Tracking: Preliminary Result in the Intracranial Circulation", Lin, et al, JMRI, vol. 2, pp. 277-284, May/June 1992
	"Experience with High-Dose Gadolinium MR Imaging in the Evaluation of Brain Metastases", Yuh, et al., AJNR, vol. 13, pp. 335-345, Jan/Feb 1992
✓	"Frequency Dependence of Tissue Relaxation Times", Bottomly

EXAMINER <i>Will C. J.</i>	DATE CONSIDERED <i>9/27/05</i>
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EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
ACS	4,915,111	04/10/90	Sano et al.			
	4,585,008	04/29/86	Jarkewicz			
	4,585,941	04/29/86	Bergner			
	5,087,439	02/11/92	Quay			
	4,865,043	09/12/89	Shimoni			
	5,305,751	04/26/94	Chopp et al.			
	5,315,997	05/31/94	Widder et al.			
	4,597,754	07/01/86	Thill, et al.			
	4,202,333	05/13/90	Thill, et al.			
	4,298,000	11/03/81	Thill, et al.			
✓	4,430,079	02/07/84	Thill, et al.			

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EXAMINER INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ACS	"Abdominal Aortography with Dynamic High-Dose Gadopentetate Dimeglumine", Prince, SMRM 12th Annual Meeting, August, 1993
	"Dynamic Gadolinium-Enhanced Three-dimensional Abdominal MR Arteriography", Prince et al., JMRI, Vol. 3, No. 6 November/December 1993
	"Gadolinium-enhanced MR Aortography", Prince, Radiology, Vol. 191, No. 1, Pages 155-164, April 1994
	"Optimizing Blood Vessel Contrast in Fast Three-Dimensional MRI", Haacke, et al., SMRM Workshop on MR Imaging of Blood Flow, March 13-14, 1989
	"Magnetic Resonance Angiography of the Thoracic Aorta", Prince, et al., Magnetic Resonance Angiography: A Practical Approach, Chapter 10, pp. 131-138
	"Contrast Enhancement in Abdominal CT: Bolus vs. Infusion", Burgener, et al., AJR, vol. 137, pp. 351-358, 1981
✓	"MRA Adds Value in Body Imaging", Prince, MR, vol. 5, number 3, pp. 29-31, Summer 1995

EXAMINER <i>N. A. C. S. J.</i>	DATE CONSIDERED <i>9/27/05</i>
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EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
ACS	5,522,390	6/1996	Tuithof et al.			
↓	5,515,863	2/ 1994	Damadian			
↓	5,287,273	8/1998	Kupfer et al.			
↓	5,792,056	8/1998	Prince			

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ACS	"3D-MR-Angiographie mit Gd-DTPA", Seiderer, et al., Fortschr. Rontgenstr., 152-153 (1990), pp. 327-332
↓	"Fast Magnetic Resonance Angiography Using Turbo-FLASH Sequences in Advanced Aortoiliac Disease", Sivananthan, et al., The British Journal of Radiology, vol. 66, no. 792, pp. 1103-1110, Dec. 1993
↓	"Contrast-Enhanced Magnetic Resonance Tomoangiography: A New Imaging Technique for Studying Thoracic Great Vessels", Revel, et al., Magnetic Resonance Imaging, vol. 11, pp. 1101-1105, Nov. 8, 1993
↓	"MR Imaging (Including MR Angiography) of Abdominal Aortic Aneurysms: Comparison with Conventional Angiography", Kaufman, et al., AJR, 163, pp. 203-210, July 1994
↓	"Gadolinium-Enhanced MR Aortography", Prince, Radiology, page 193, November 1994
↓	"Magnetic Resonance Angiography of the Renal and Visceral Arteries", Kaufman, et al., Magnetic Resonance Angiography: A Practical Approach, Chapter 12, pp. 161-170
↓	"Gadolinium-Enhanced Magnetic Resonance Angiography of Abdominal Aortic Aneurysms", Prince, et al., Journal of Vascular Surgery, vol. 21, no. 4, pp. 656-669, April 1995
↓	"Breath-Hold Gadolinium-Enhanced MR Angiography of the Abdominal Aorta and its Major Branches", Prince, et al., Radiology, vol. 197, no. 3, pp. 785-792, Dec. 1995
↓	"Gadolinium Enhanced MR Imaging of Vascular Stents", Matsumoto et al., Journal of Computer Assisted Tomography, vol. 14, no. 3, pp. 357-361, May/June 1990
↓	Magnetic Resonance Angiography, Concepts & Applications, Potchen et al., chapter 16, "Magnetopharmaceuticals as contrasts agents, Marchal et al., pp. 305-322, 1993
↓	"Evaluation of Renal Artery Stenosis with Dynamic Gadolinium-Enhanced MR Angiography: Work in Progress", Rieumont, et al., Radiology, page 193, Nov. 1994

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	5,341,099	8/1994	Suzuki			
	5,451,211	9/1995	Neer et al.			
	5,494,036	2/1996	Uber, III et al.			

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EXAMINER INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

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WJS	"An Extended-Length Coil Design for Peripheral MR Angiography", Rajan et al., Magnetic Resonance Imaging, Vol. 9, No. 4, pp. 493-495, 1991
	"Fast MRI with turbo-FLASH Sequences in Aortoiliac Disease", Sivanathan et al., The Lancet, Vol. 338, pp. 1090-1091, October 26, 1991
	"The Use of Contrast-Enhanced TurboFLASH Sequences in Aorto-Iliac Disease and Their Comparison with Conventional Angiography", Sivanathan et al., SMRM 1992, Berlin, p. 3108
	"Preliminary Study of Pulmonary Three-Dimensional Time of Flight MR Angiography with Breath-Holding Using a Contrast Medium", Isoda et al., Radiation Medicine, Vol. 11, No. 5, September-October 1993, pp. 191-195
	"Fast Three-Dimensional Time-of-Flight MR Angiography with Timed Injection of Contrast Material", Kanai et al., Radiology 1991; Vol. 181(P), 119 (abstract 169C)
	"Fast Three-Dimensional Time-of-Flight MR Angiography with Contrast Bolus Injection", Talagala et al., SMRI 1992, paper #332
	"Fast RF-spoiled Three-dimensional MR Angiography of Intracranial Vasculature in Scan Times under 1 minute", Talagala et al., Book of Abstracts, SMRM 1991, page 1021
	"Normal abdominal enhancement patterns with dynamic gadolinium-enhanced MR imaging", Mirowitz, et al., Radiology, v.180, no.3, Sep 1, 1991, p.637-640, XP000577881
	"Contrast enhancement in abdominal CT Bolus vs. Infusion", Bergener, et al., American Journal of Roentgenology, v.137, Aug 1, 1981, p.351-358, XP000577961
	"Clinical application of pulmonary 3 dimensional time-of-flight MR angiography with breath-holding using a contrast medium", Isoda, et al., Society of Magnetic Resonance in Medicine, 11th Annual Scientific Meeting, Aug 8-14, 1992, Berlin, Germany, Works in Progress, p.3119, XP002111479

EXAMINER	<i>William A. Szy</i>	DATE CONSIDERED	<i>9/27/05</i>
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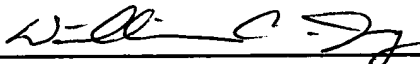
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WCS	5,799,649	9/1998	Prince	1	1	1

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WCS	0 543 468	5/1993	European			

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WCS	"The arterial concentration of Gd-DTPA can be monitored non-invasively", Soodergaard, et al., Society of Magnetic Resonance in Medicine, 11th Annual Scientific Meeting, Aug 8-14, 1992, Berlin, Germany, Book of Abstracts, v.1, p.1120, XP002111480
	"Fast-scan magnetic resonance: Principles and applications", Wehrli, Magnetic Resonance Quarterly, v.6, no.3, 1990, p.165-236, XP002111477
	"Dynamic Three-dimensional Imaging with Partial K-Space Sampling: Initial Application for Gadolinium-enhanced Rate Characterization of Breast Lesions", Chenevert et al., Radiology, vol. 196, no. 1, 1995, p. 135-142
	"A Perspective on K-Space", Mezrich, Radiology, vol. 195, no. 2, 1995, p. 297-315
✓	"A Rapid Interleaved Method for Measuring Signal Intensity Curves in both Blood and Tissue during Contrast Agent Administration", Taylor et al., Magnetic Resonance In Medicine, 30, 1993, pp. 744-749

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